AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently amended) An arrangement for transmitting data to and from a terminal of a radio system, the arrangement comprising:

a receiver configured to receive a television broadcast;

a processing unit configured to separate data from the received television broadcast; [[and]]

a transmitter configured to transmit the separated data through a wireless radio connection to the terminal of the radio system; and

the terminal of the radio system comprises a receiver configured to receive the data, a user interface configured to issue response data, and a transmitter configured to transmit the response data in a wireless radio connection to a network server through the radio system.

2. (Original) The arrangement of claim 1, wherein the processing unit is further configured to convert the separated data into a format suitable for the terminal.

3. (Original) The arrangement of claim 1, wherein the separated data comprises at least one of the following: an application, a game, a part of a game, a wallpaper for a display, an upgrade to software, an application for participating in a television show or competition, a picture, a message, a command.

4. (Original) The arrangement of claim 1, wherein the receiver is integrated into a television set, and the processing unit and the transmitter are integrated into the television set or into a separate box coupleable to the television set.

5. (Original) The arrangement of claim 1, wherein the arrangement is integrated into a separate box coupleable to a Wireless Local Area Network (WLAN) access point.

6. (Original) The arrangement of claim 1, wherein the arrangement is integrated into a Digital Video Broadcasting Handheld (DVB-H) receiver.

7. (Original) The arrangement of claim 1, wherein the data is embedded in a digital television transmission or analogue television transmission.

8. (Original) The arrangement of claim 1, wherein the data is embedded in a text television transmission.

9. (Original) The arrangement of claim 1, wherein the arrangement further comprises a game server configured to run a game, and a display interface configured to communicate display information on the game to a display.

10. (Original) The arrangement of claim 9, wherein the arrangement further comprises a game control receiver configured to receive game commands from the terminal.

11. (Original) The arrangement of claim 1, wherein the wireless connection comprises at least one of the following: a wireless radio connection, an infrared connection.

12. (Original) The arrangement of claim 1, wherein for separating data, the processing unit is further configured to capture a screen shot from the received television broadcast.

13. (Original) The arrangement of claim 1, wherein the separated data comprises encrypted data, and the processing unit is further configured to decrypt the separated data.

14. (Currently amended) An arrangement for transmitting data to and from a terminal of a radio system, the arrangement comprising:

receiving means for receiving a television broadcast;

processing means for separating data from the received television broadcast; [[and]]

transmitting means for transmitting the separated data wirelessly with a radio connection to the terminal of the radio system; and

the terminal of the radio system comprises receiving means for receiving the data, user interface means for issuing response data, and transmitting means for transmitting the response data in a wireless radio connection to network server means through the radio system.

15. (Original) The arrangement of claim 14, wherein the processing means convert the separated data into a format suitable for the terminal.

16. (Original) The arrangement of claim 14, wherein the arrangement further comprises game server means for running a game, and display interface means for communicating display information on the game to a display.

17-19. (Canceled)

20. (Currently amended) A method for transmitting data to and from a terminal of a radio system, the method comprising:

embedding data in a television broadcast;

transferring the television broadcast to a receiver;

separating data from the received television broadcast by the receiver; [[and]]

transferring the separated data wirelessly with a radio connection from the receiver to [[a]]the terminal of the radio system;

issuing response data by the terminal of the radio system; and

transmitting the response data in a wireless radio connection from the terminal of the radio system to a network server through the radio system.

21. (Original) The method of claim 20, wherein the method further comprises: converting the separated data into a format suitable for the terminal.

22. (Original) The method of claim 20, wherein the method further comprises: running a game in the terminal; and inputting the separated data as input to the game.

23. (Original) The method of claim 20, wherein for separating data, the method further comprises: capturing a screen shot from the received television broadcast.

24. (Original) The method of claim 20, wherein the separated data comprises encrypted data, and the method further comprises: decrypting the separated data.

25. (Currently amended) A method for providing interactive television, the method comprising:

processing data in a network server;

embedding the data in a television broadcast;

receiving the television broadcast in a receiver;

separating data from the received television broadcast in the receiver;

transmitting the data wirelessly with a radio connection from the receiver to a terminal of a radio system;

issuing response data by the terminal of the radio system;

transmitting the response data in a wireless radio connection from the terminal of the radio system to the network server through [[a]]the radio system; and

processing the response data in the network server.

26-30. (Canceled)

31. (Currently amended) A computer readable medium encoded with computer executable instructions executable by a processor of a device for performing steps comprising:

receiving a television broadcast;

separating data from the received television broadcast; [[and]]

transferring the separated data wirelessly with a radio connection to a terminal of a radio system;

issuing response data by the terminal of the radio system; and

transmitting the response data in a wireless radio connection from the terminal of the radio system to a network server through the radio system.

32. (Previously presented) The computer readable medium of claim 31, wherein separating data includes converting the separated data into a format suitable for the terminal.

33. (Previously presented) The computer readable medium of claim 31, wherein the steps further comprise running a game, and communicating display information on the game to a display.

34. (New) A terminal of a radio system, comprising:

a user interface configured to issue commands;

a first communication interface configured to receive data wirelessly in a radio connection from a broadcast receiver;

a second communication interface configured to communicate wirelessly in a radio connection with the radio system; and

a processing unit configured to process the received data and the issued commands, and to transmit the issued commands to a network server via the second communication interface.